ACCESSION NR: AP4038143

namely, the amount of sugar decreased by 18-27.5 mg% and glycogen by 1.4-3.25 mg%. These changes, however, were only temperary, and on the day following the exposure the sugar level returned to normal and the amount of glycogen returned to normal a little later. Repeated exposure (20 times) to vibration resulted in a decrease of the sugar level to 83-90 mg%; after 30 times to 82-85 mg%; and after 40 times to 74-85 mg%. The glycogen content of the blood decreased correspondingly to 11.5-9.7 mg%. In animals exposed 70 times to total-body vibration with an amplitude of 50 µ and a frequency of 75 cps, no marked changes in the blood content of sugar and glycogen were detected. In rabbits exposed to vibration with an amplitude of 15 u and a frequency of 75 cps, no marked changes were observed either at a single exposure or at repeated exposures. The Collowing results were obtained in experiments with dogs exposed to total-body vibration with an amplitude of 750 W and a frequency of 50 cps: After a single exposure for a period of 4 hours, a slight

Card 2/3

ACCESSION NR: AP4038143

decrease of the sugar content in the blood was observed (82 mg% compared to normal 89.5 mg%). After repeated exposure to vibration (55 times), the sugar level in the blood of the dogs decreased to 62 mg%, while the sugar level in the control group remained at the normal amount of 80 mg%; the glycogen level in the test animals, after repeated exposure to -vibration, decreased considerably. Experimental data indicate that the action of total body vibration with an amplitude of 200 μ and a frequency of 75 cps caused changes in the glykemic curves and a reduction in the sugar and glycogen blood contents in the test animals. Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: Moskovskiy nauchno-issledovatel'skiy institut gigiyeny* im. F. F. Erismana (Moscow Scientific Research Institute of Hygiene)

SUBMITTED: 13Feb63

DATE ACQ: 05Jun64

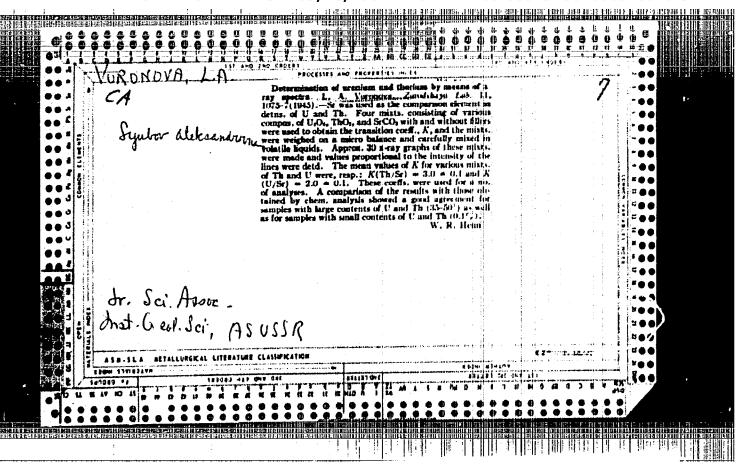
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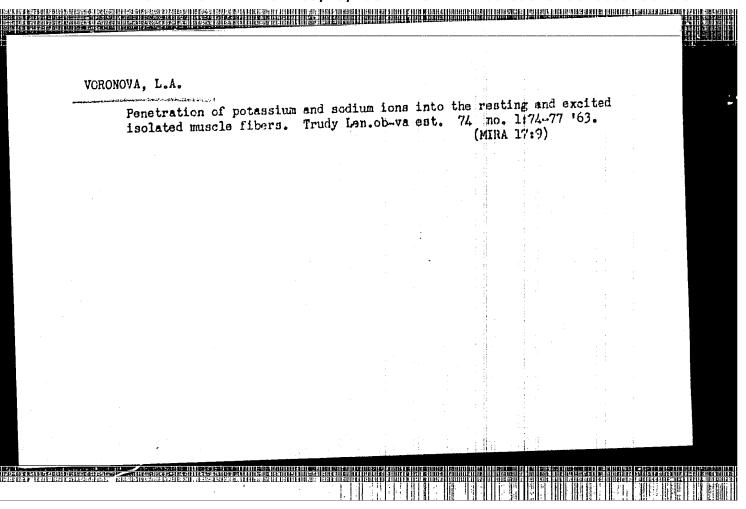
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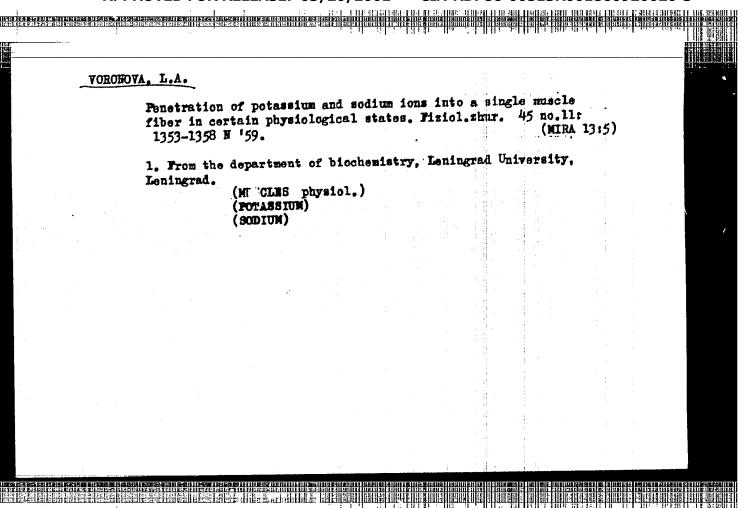
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OTHER: 001

Card 3/3



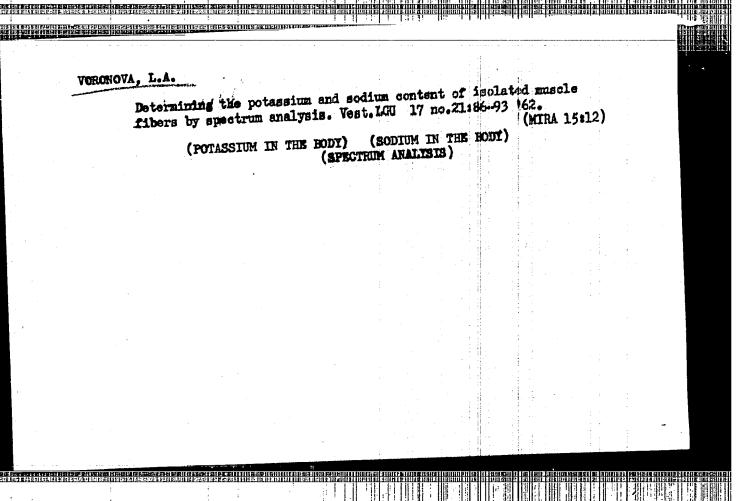


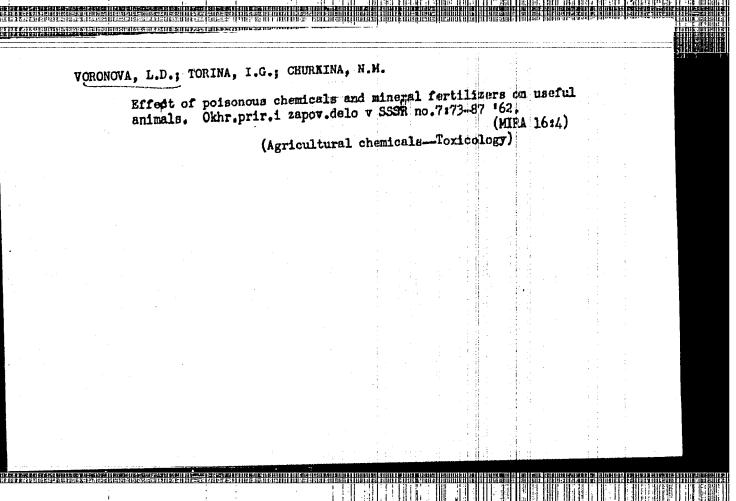


RERLIN, S.S.; DOROSHENKO, L.A.; VCRONOVA, L.A.; NEVEROVS'KA, V.O.
[Nevierovs'ka, V.O.]; ROTF, M.M.

Proposals of efficiency promotors. Leh. prcm. no.2:63-65
Ap-Je '63.

(Technological innovations)





SURNINA, L.V.; VORONOVA, L.G.

Significance of the study of volcanic gases for forecasting eruptions. Geol. 1 geofiz. no.7166-69 164. (MIRL 1818)

1. Institut neorganichaskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk, i Sakhalinskiy kompleksnyy nauchno-issiedovatel'skly institut, poselok Novo-Aleksandrovsk.

ACC NR: AT6034740

SOURCE CODE: UR/0000/66/000/000/0062/0101

Voronova, L. I.; Krementulo, Yu. V.

ORG: none

TITLE: A new method of determining the characteristics of complex dynamic systems

SOURCE: AN UkrSSR. Slozhnyye sistemy upravleniya (Complex control systems). Kiev, Naukova dumka, 1966, 82-101

TOPIC TAGS: dynamic system, linear differential equation system.

ABSTRACT: Among the numerous methods of determining the characteristics of systems from data on their normal operation there is a class of methods based on direct integration of differential equations. This article proposes a new method: the method of integrating a sliding band. The applicability of the method to complex systems which may be described by linear differential equations is examined. Before proceeding to its analysis the authors dwell on a brief description of existing methods in this class. It is concluded that the method of repeated integration of a sliding band makes it possible to determine the degree of the differential equation of the linear dynamic systems and the numerical value of its coefficients. The method is applicable to defining the characteristics of linear systems with variable parameters. Additive noise whose average value in the (t-r, t) range in zero introduces no errors into the

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APPROVED FOR RELEASE: 03/20/2001

ACC NR: AT6034740

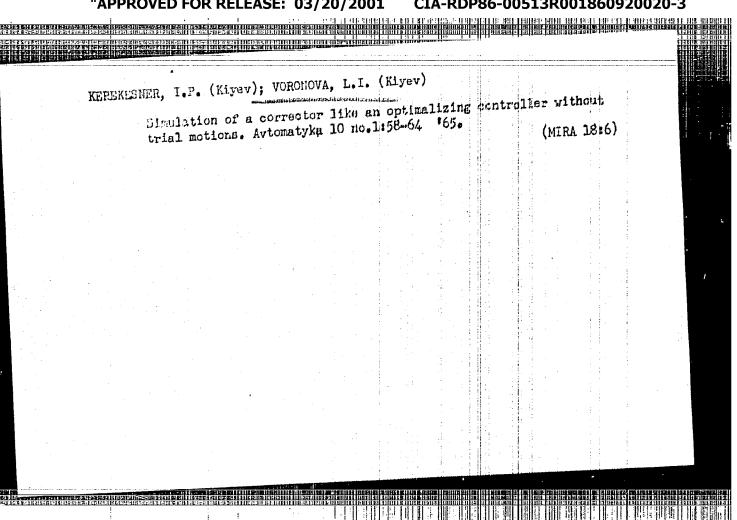
coefficients which are being determined. All that the states discussed may be applied to complex linear systems with several inputs and outputs. In the sliding (or moving) interval $(t-\tau, t)$ the current time is represented by t, while τ is a constant. All systems treated may be described by the following equation:

$$\sum_{l=0}^{n} a_{l} \frac{d^{l}y(l)}{dt^{l}} = \sum_{l=1}^{m} b_{l} \frac{d^{l}x(l)}{dt^{l}} + x(l), \quad n \geqslant m,$$

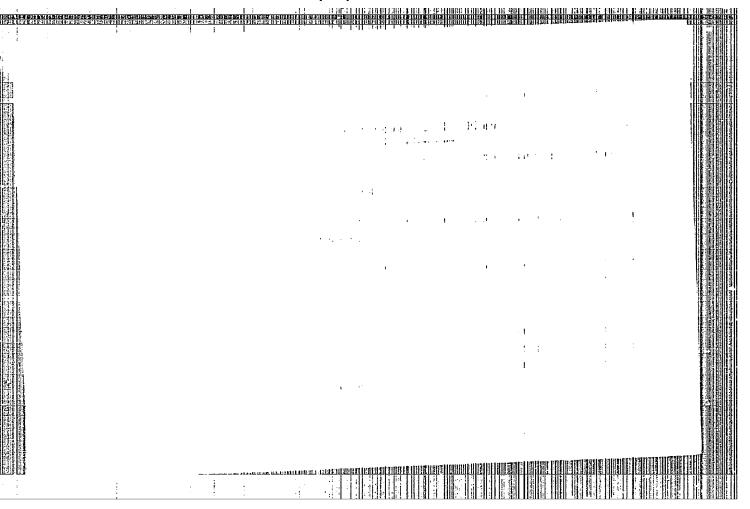
where x(t) is the input signal and y(t) is the output signal of the system. This is integrated n times within $(t-\tau, t)$ and the analysis is continued. Orig. art. has: 37 formulas and 8 figures.

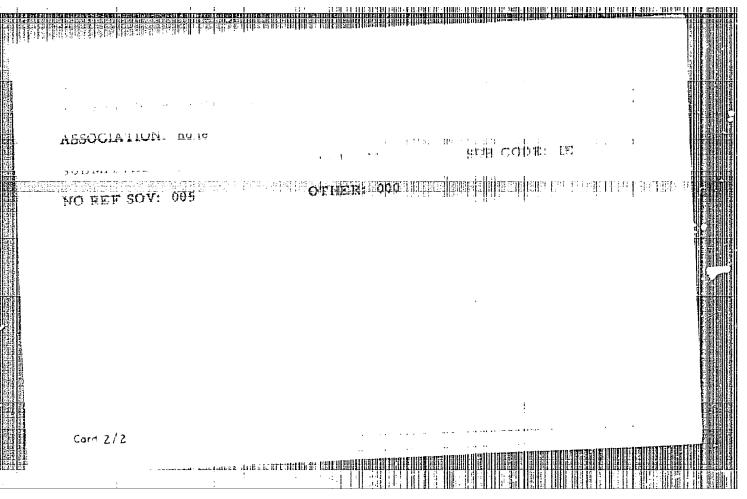
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Card 2/2



APPROVED FOR RELEASE: 03/20/2001



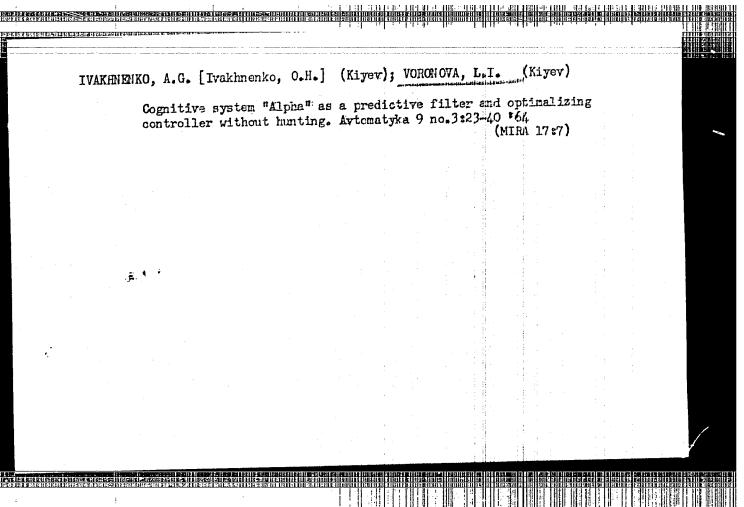


MARCHUK, Guriy Ivanovich; Prinimal uchastiye TURCHIN, V.F.; VORONOVA, L.I., red.; MAZEL', Ye.I., tekhn. red.

[Calculation methods for medear reactors] Metody rasebata iadernykh reaktorov. Moskva, Gos. izd-vo lit-ry v oblasti atomnói nauki i tekhmiki, 1961. 666 p.

(Nuclear reactors)

(Nuclear reactors)



VORONOVA, L.I. (Kiyev); KREMENTULO, Yu.V. (Kiyev) Converters of discrete magnitudes to continuous ones using alternating current. Avtomatyka 8 no.6:81-83 63. (MIRA 17:8) APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860920020-3"

	5/0102/64/000/003/0023/0040
	ACCESSION NR: AP 1010310 AUTHOR: Ivakhnenko, O. G. (Ivakhnenko, A. G.) (Kiev); Voronova, L. I. (Kiev)
•	TITLE: Recognizing system Alpha as a learning filter and as an extremum controller without hunting
	SOURCE: Avtomaty*ka, no. 3, 1964, 23-40
- 1	TOPIC TAGS: automatic control, on off automatic control, Alpha automatic control, pattern recognition
	ABSTRACT: A further discussion of the possible characteristics of a self ABSTRACT: A further discussion of the possible characteristics of a self learning automatic system suggested by the author (Avtomatika, no. 3, 1962) is learning automatic system suggested by the author (Avtomatika, no. 3, 1962) is presented. The following claims are laid: The binary on-off "Alpha" system is presented. The following claims are laid: The cognize patterns but also to
	organize an extremum-control system. The only human guidance required is the organize an extremum-performance-index sensor and the affirmation of the selection of an extremum-performance-index sensor and the affirmation of the selection of an extremum-performance-index sensor and the affirmation of the selection of the plant (number
	existence of a one-extremum characteristic. Learning (changing pole of control variables) does not limit the system. Learning (changing pole

ACCESSION NR: AP4040516

positions) takes place when a discrepancy between the outputs of the recognition system and the plant arises; control takes place when an agreement between the same outputs exists and lasts up to the "sufficiently well" point. Any recognition system classifying the states or images into output situations (or patterns) is capable of predicting the result and, therefore, of reasonable purposeful control. Invariance conditions of the system with respect to a specified disturbance which eliminate the relearning error are formulated. Problems requiring further consideration are indicated. The article is published "as a discussion material." Orig. art. has: 9 figures, 21 formulas, and 2 tables.

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ASSOCIATION: none

SUBMITTED: 27Jan64

DATE ACQ: 26Jun64

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 007

OTHER: 001

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CI

VORCNOVA, L.I. (Kiyev); KREMENTULO, Yu.V. (Kiyev)

Schematic of a system for converting an angle of rotation into impulses sensitive to the direction of the rotation. Automatyka 9 no.3:54-57 *64

(MIRA 17:7)

L 38726-66 EWT(d)/EWP(1) IJP(c) ACC NR. AP6013099

SOURCE CODE: UR/0102/66/000/002/0003/0007

AUTHOR: Voronova, L. I. (Kiev); Krementulo, Yu. V. (Kiev)

120

ORG: None

TITLE: A new method for determining the dynamic characteristics of automatically controlled members

SOURCE: Avtomatyka, no. 2, 1966, 3-7

TOPIC TAGS: dynamic system, simulation test, analog computer, first order differential equation, second order differential equation, algebraic equation, INTEGRATION

ABSTRACT: The authors discuss three types of methods for determining the characteristics of dynamic systems: 1. the statistic method; 2. methods dealing with integration of differential equations by terms; 3. adjustable models. The second method is considered by the authors. It is assumed that a dynamic system is described by the linear differential equation

 $\sum_{i=1}^{m} a_{i} \frac{d^{i} y(t)}{dt^{i}} = x(t) + \sum_{i=1}^{m} b_{i} \frac{d^{i} x(t)}{dt^{i}}.$

This expression may be used to determine any unknown coefficient when others are known. Certain difficulties are encountered which are related to the necessity of different-

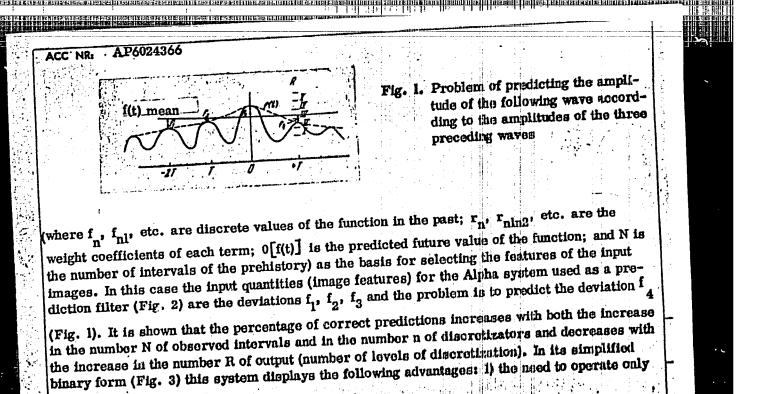
Card 1/2

L 38726-66 ACC NR: AP6013099 iating the input x(t) and the output y(t) signals of the system. This difficulty can be eliminated by n-fold integration of the expression over the range t-τ, t. It is obvious that this method is useful for determining a large number of coefficients a, For the case where it is necessary to determine k coefficients, integration of this expression (n+k-1) times gives a system of algebraic equations with respect to the unknown coefficients. Three methods are given for expansion of this expression into a system of (n+m+1) equations: 1. n-fold integration of the expression for (n+m+1) equal intervals; 2. increasing the multiple of integration of the differential expression from n to 2n+m with invariant limits of integration; 3. n-fold integration of the differential equation for (n+m+1) intervals of a given length. Systems of equations are given for each one of these three cases. The proposed method for determining the coefficients is used for members which are described by certain nonlinear ordinary and partial differential equations. The method is also applicable to multidimensional members. Experimental verification of this method was carried out on an MNB-1 type analog device for members described by the first and second order differential equation. The coefficients for those types of elements are given. Orig. art. has: 4 figures, 6 formulas. SUB CODE: /2/ SUBM DATE: 17Jun65/ ORIG REF:

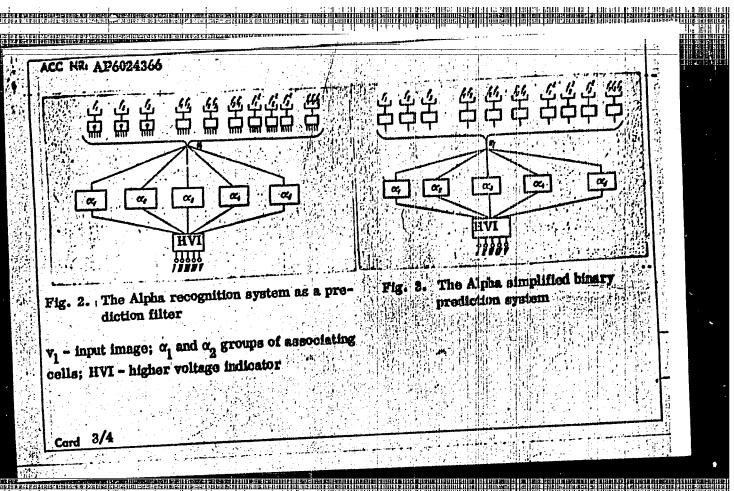
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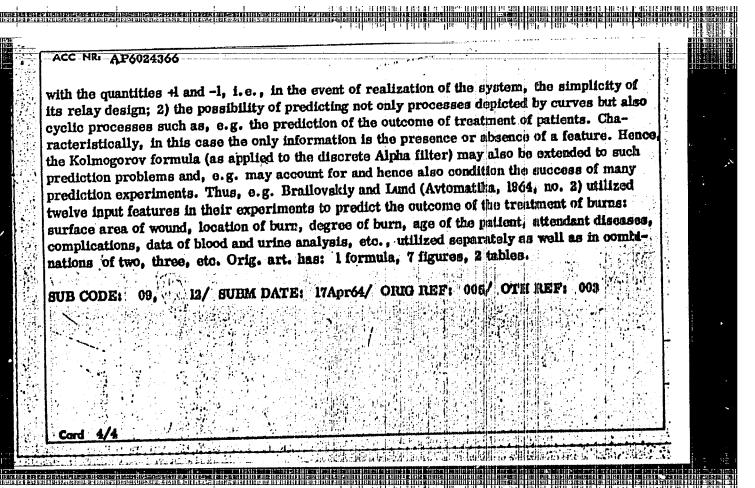
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ACC NR: AP602436	so, A. G.; Voronov	a, L. L. (Kiew)	0280/66/010/008	7,000	
ORG: none		•			
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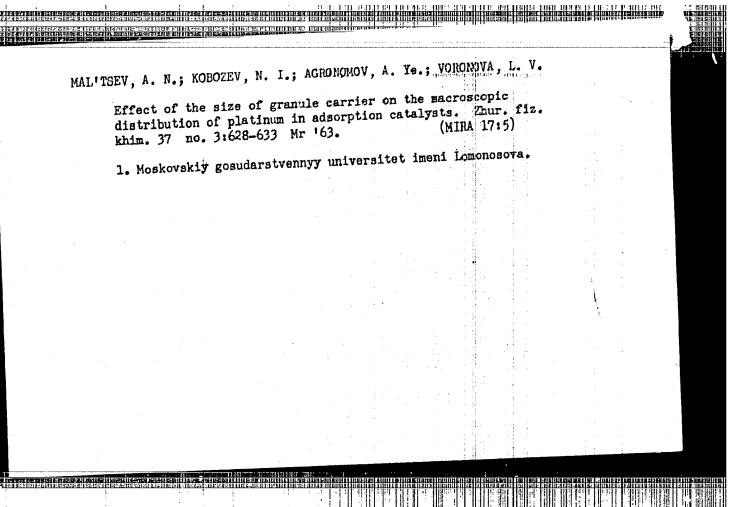
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VORCHOVA, L.V., Cand Bio Sci-(diss) "pata on the study of antigens used in the agglutination reaction for the diagnosis of bracellosis in humans and animals." Odessa, 1958. 12 pp (Min of Higher Education UkSSM. Odessa State U im I.I. Mechnikov), 200 codies (MI. 44-55, 121)

- 22



STRIZHEVSKIY, I.I. [Stryzhevs'kyi, I.I.]; KORDYSH, Ye.X [Kordysh, IE.J.];
VORCNOVA, Lya.; MOKHOVA, V.S.; SOBODYR', 5.G. [Sobodyr, S.H.];
SHLYAKHOVER, I.V.; ESTRIN, S.M.

Balloon filling with pyrolysis acetylene. Khim. prom. [Ukr] no.li
(MIRA 18:4)
69-71 Ja-Mr '65.

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VORONOVA, L.Ye.

Cancer of the larynx in a girl aged 15; one observation. Vop. onk. 11 no.7:107-108 '65. (MIRA 18:9)

1. Iz otorinolaringologicheskogo otdeleniya (zav.- doktor med. nauk M.G. Baradulina) Gosudarstvennogo nauchno-issledovatel'- skogo onkologicheskogo instituta imeni Gertsena (dir.- prof. A.N. Novikov).

IVANOVA, A.; VDOVINA, R.; VORONOVA, M.

Thoughts, suggestions and wishes. Sov.profsoiuzy 19 no.5:18-19 Mr 163. (MIRA 1642)

1. Organizator profesyuznoy gruppy teekha pryedil'nykh mashin pryedil'noy fabriki No.2 Orekhovskogo ordena Lenina kelepehato-bumanhnogo kombinata imeni K.I. Nikolayevoy (for Ivanova).

2. Organizator profesyuznoy gruppy vorsorezmogo teekha otbel'no-krasil'noy fabriki Orekhovskogo ordena Lenina khlopehatobumashnogo kombinata imeni K.I. Nikolayevoy (for Vdovina).

3. Organizator profesyuznoy gruppy 3-go teekha tkatskoy fabriki No.1 Orekhov-profesyuznoy gruppy 3-go teekha tkatskoy fabriki No.1 Orekhov-skogo ordena Lenina khlopehatobumazhnogo kombinata imeni K.I. Nikolayevoy (for Voronova).

(Orekhovo-Zuyevo-Cotton manufacture)

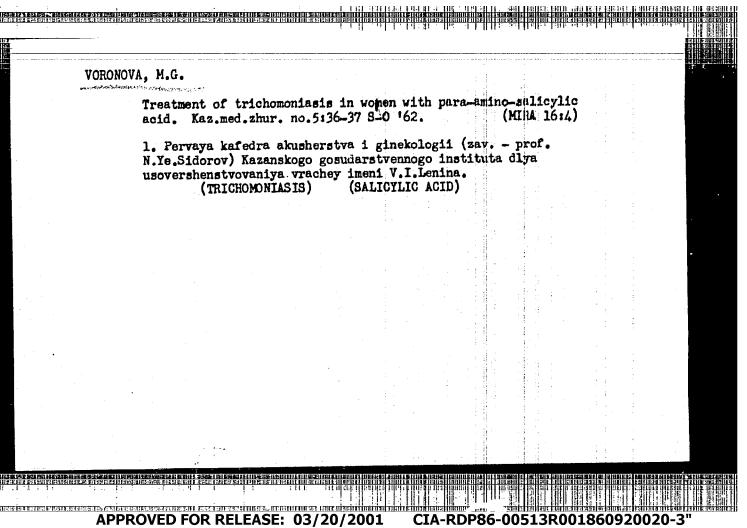
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CHUPRIN, N.Ye. [Chupryn, N.E.]; VORUNOVA, M.A.

New data on the stratigraphy of Lower Cretaceous sediments in the northwestern part of the Dnieper-Donets Lowland, Geol. shur. 23 no.2:87-90 %63. (MIRA 16:6)

1. Chernigovskaya ekspeditsiya Ukrainskogo nauchno-issledovatel'-skogo gornorudnogo instituta i Institut geologicheskikh nauk AN UkrSSR.

(Dnieper-Donets Lowland-Geology, Stratigraphic)



CIA-RDP86-00513R001860920020-3"

ACCESSION NR: AP4040730

5/0192/64/005/003/0482/0489

TITLE: Donor-acceptor properties of the siloxane bond

AUTHOR: Voronkov, M. G.; Deych, A. Ya.

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 3, 1964, 482-489

TOPIC TAGS: siloxane bond, alkoxysilane, aryloxysilane methylsiloxane, donor acceptor property, electro acceptor bond, electro donor bond, physico chemical method

ABSTRACT: To explain the mechanism of heterolytic splitting of the Si-O bond in siloxanes and alkoxysilanes and to clarify the bond nature, more than 300 binary systems of alkoxysilanes, aryloxysilanes methylsiloxanes and their organic analogues with electro-acceptor and electro-donor bonds were analyzed by physico-chemical methods. It has been shown that both electro-donor and electro-acceptor properties of alkoxysilanes are enhanced by a decreasing number of alkoxygroups at the central silicon atom; this is explained by both the sterical factor and the increasing polarity of the Si-O bond. A new type of molecular interaction between alkoxysilanes and polar

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001860920020-3"

ACCESSION NR: AP4040730

benzene derivatives of the C_6H_5X was found. The composition of stratified systems formed by methylsiloxanes with organic compounds was determined. Donor/acceptor properties of the siloxane bond Si-O-(Si) in siloxanes in relationship to organic molecules are usually not apparent and can but rarely be observed. Electrodonor properties decrease in the series $C-O-C>C_{alk}-O-Si>C_{ar}-O-Si>>Si-O-Si>(O)-Si-O-Si$ while the electro-acceptor properties of the silicon atom decrease in another order $Si_{ak}-O-Si>C_{alk}-O-Si>Si-O-Si$. Detailed experimental data supporting the above conclusions will be published in a series of articles on this subject. Orig. art. has: 1 figure, 1 formula, 1 table.

ASSOCIATION: Institut organicheskogo sintesa AN LatvSSR (Institute of Organic Synthesis, AN LatvSSR)

SUBMITTED: 17Mar63 /

NR REF SOV: 005

OTHER: 004

ENCL: 00

2/2

SUB CODE: IC

APPROVED FOR RELEASE: 03/20/2001

CTA-RDP86-00513R001860920020-3

IVANOV, A.A.; VORONOVA, M.L.

Sylvinite cap of the Verkhnekamsk deposit. Trudy VSEGEI 99:181-190
(MIRA 17:6)

KORENEVSKIY, S.M.; VORONOVA, M.L.

New data on the geology and potassium-bearing salt structures of Ozinki and Gremuchiy. Trudy VSEGEI 99:215-232 (53. (MIRA 17:6)

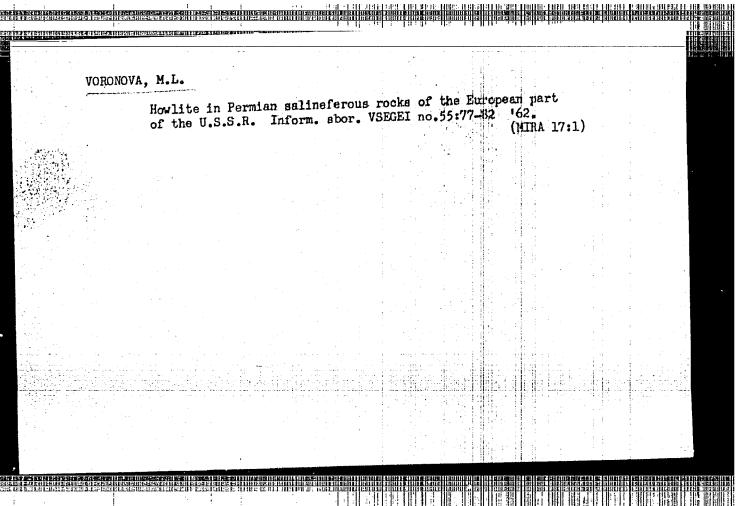
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Authors : Voronova, M. L.			
Title : Discovery of polyhalite Uzun-Su	and kainito in the	sulfa de la listou	stauun (1
Periodical : Dok. AN SSSR 99/3, 449-4	50, Nov 21, 1954		
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Institution : All-Union Scientific Res	search Institute of	Halury Halury	
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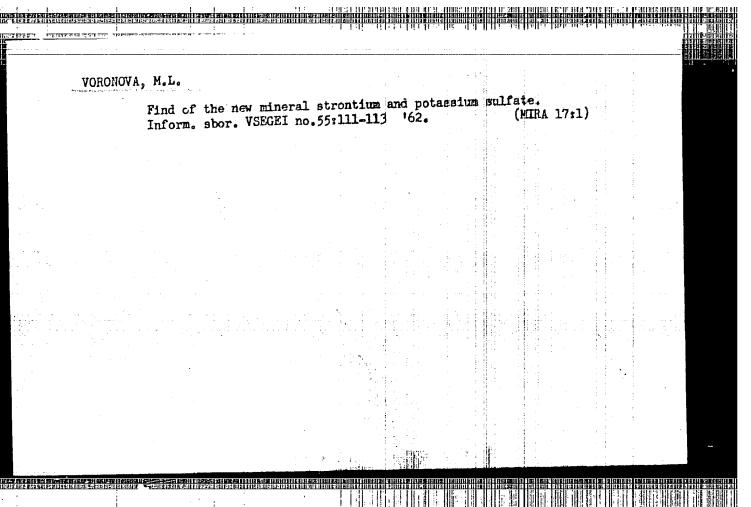
VORONOVA, M. N. "Psychic Disorders in Hypertension. (Experimental Clinical Physiological Investigation)." Cand Med Sci, Molotov State Medical Inst, Molotov, 1954. (KL, No 2, Jan 55) Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

VORONOVA, M.L.; KORENEVSKIY, S.M.; BODUNOV, V.S.

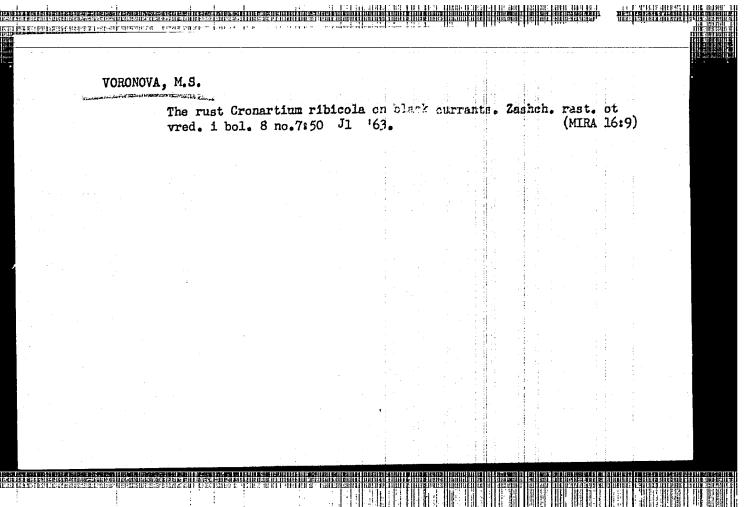
Geology and mineropetrographic characteristics of the halogen rocks in the Linevka structure. Trudy VSEGEI 83:117-127 162.

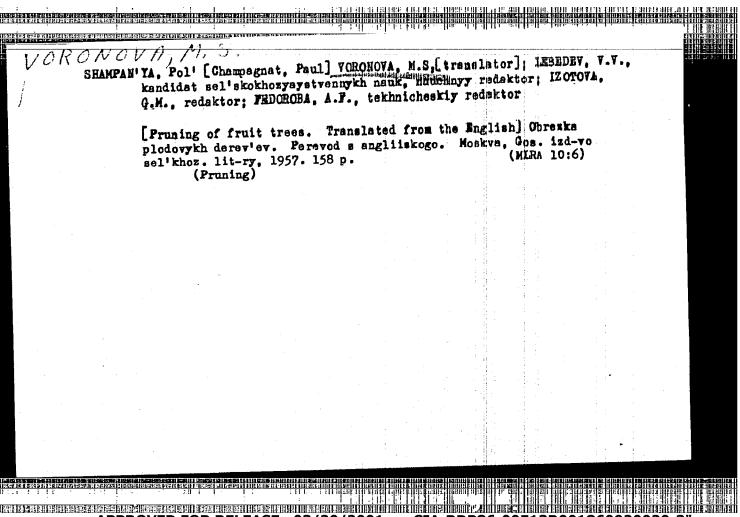
(MIRA 16:3)





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KOVALENKO, V.M.; NIKIFOROV, I.N.; Prinimali uchastiyes voronova, N.Ye.;
KORNEYEVA, N.M.; UZBEKOVA, A.Kh.; YERMOLAYEVA,

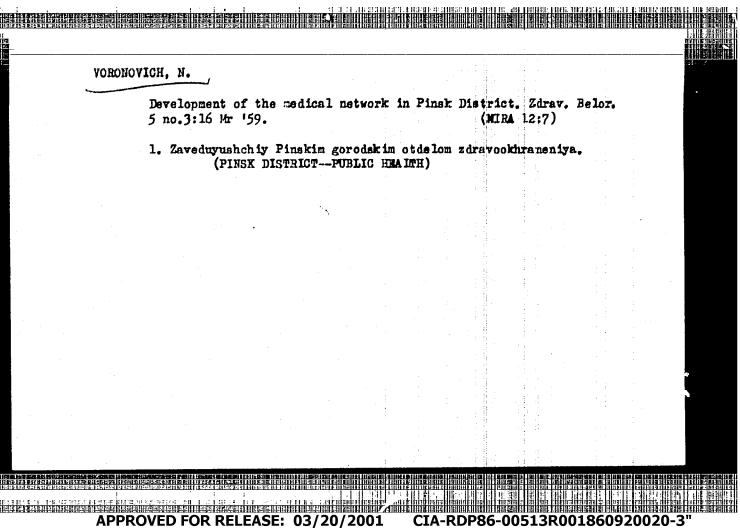
New gasoline-, oil-, fat-, and water-resistant paint coatings.
Lakokras. mat. i ikh prim. no.5:33-35 '63.

(MIRA 16:11)

VORONOVA, Mariya Zinov'yevna; TSEDILIN, I.V., red.

[Analysis of the administrative operations of fishing industry enterprises] Analiz khoziaistvennoi deiatel'-nosti predpriatii rybnoi promyshlennosti. Moskva, Finansy, 1965. 103 p.

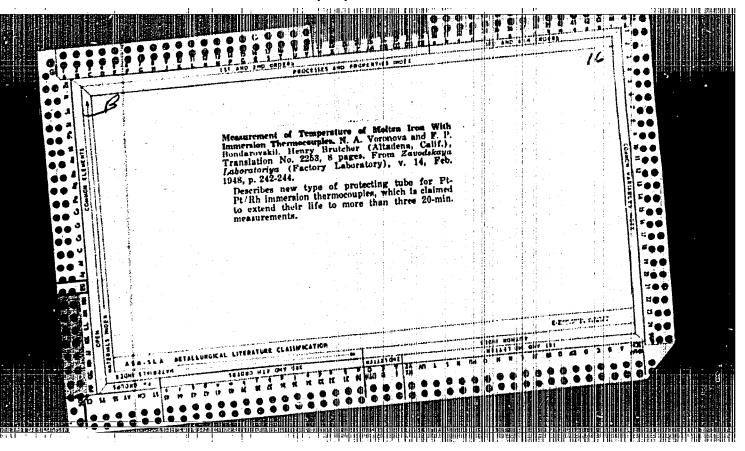
(MIRA 18:4)



SAMSONOV, G.V., otv. red.; OBOLONCHIK, V.A., kand. khim. nauk, red.; VORONOVA, N.A., doktor tekhn. nauk, red.; GILELAKH, V.I., red.

[Rare and rare-carth elements in technology] Redkie i redkozemel'nye elementy v tekhniko. Kiev, Naukova dumka, 1964. 129 p. (MIRA 17:9)

1. Akademiya nauk URSR, Kiev. Instvtut problem materialoznavstva. 2. Chlen-korrespondeni M Ukr.SSR i Institut problem materialovedeniya AN Ukr.SSR (for Obolonchia, 3. Institut problem materialovedeniya AN Ukr.SSR (for Samsonov).



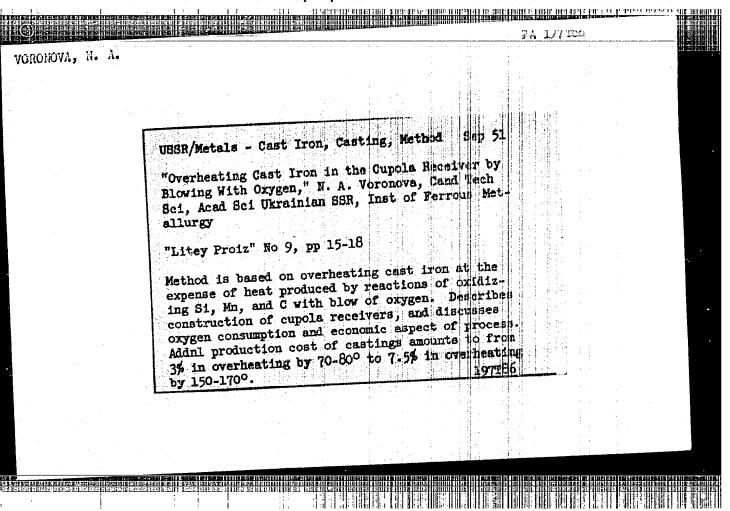
LUGOVTSOV, M.V.; VORONOVA, N.A., kandidat tekhnicheskikh mank

Wear-resistant cast iron ball mills. Trudy Inst. chern. met. AN URSR
(NIRA 8:7)

1. Deystvitel'nyy chlen Akademii nauk USSR. (for Lagovtsov).

(Milling machinery)

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PUZÀ	110V, M. A.,	vorohova, h	<u>. A.,</u> Sus	LOV, T.	٨.								
Cast	Iron				٠.								j
Effe Trud	ct of the ir y Inst. char	nterdendriti rn. met. AN	c form of URSR No.	graphi 5, 1951	t sepa	ration	on	the w	ar re	sistance	of c	ast i	on.
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	9. Monthly	List of Rus	sian Acce	ssions,	Librar	of Co	ongre	ss , De	cembe	r 1952 A	953,	Uncl.	
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CONTRACTOR							RIBE LARIEN RICCI ENGIN			711 1 1 1 1 1 1 1 1 1			
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VORONOVA, N. A., SUSLOV, V. A., PUZANOV, M. A.

Cast Iron

Effect of the interdendritic form of graphite separation on the wear resistance of cast iron. Trudy Inst. chern. met. AN URSR No. 5, 1951.

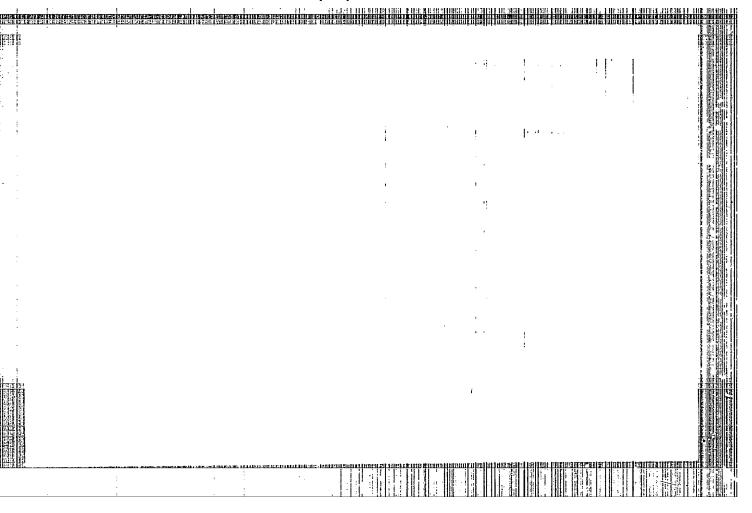
Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

VORONOVA, N. A.

"Superheating Cast Iron by O₂ Injection in the Cupola Well," Lit.

Proiz., No.9, pp. 15-17, 1951

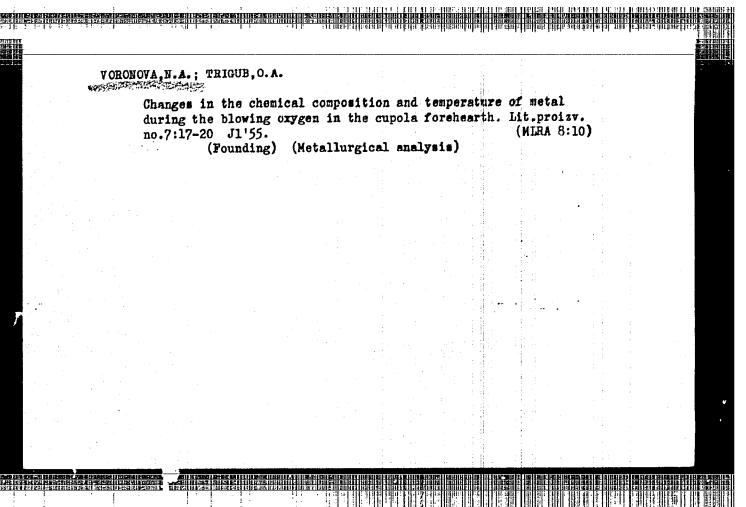
Evaluation B-74606

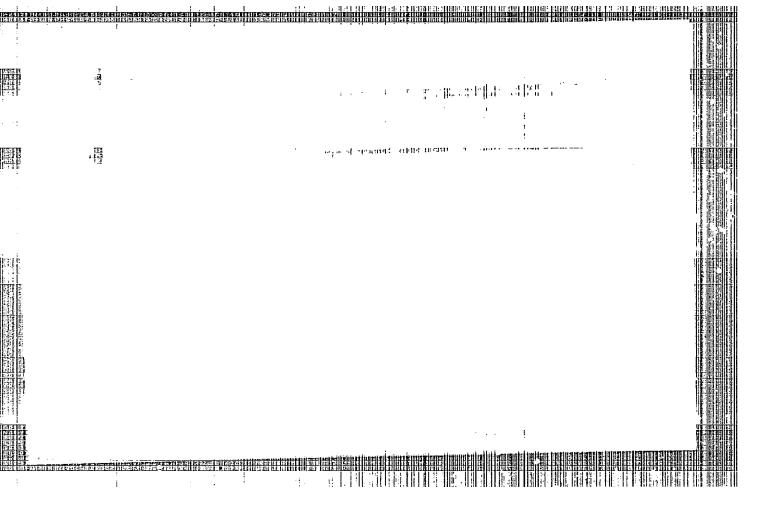


VORONOVA, N. A.

"Smelting of Low-Carbon Cast Iron in the Converter and of Highly Overrefined Cast Iron in the Forehearth and Hearth of a Cupola under Application of Oxygen." Acad Sci USSR, Inst of Metallurgy imeni A. A. Baykov, Moscow-Dnepropetrovsk, 1955. (Dissertation for the Degree of Doctor of Technical Sciences)

SO: M-972, 20 Feb 56

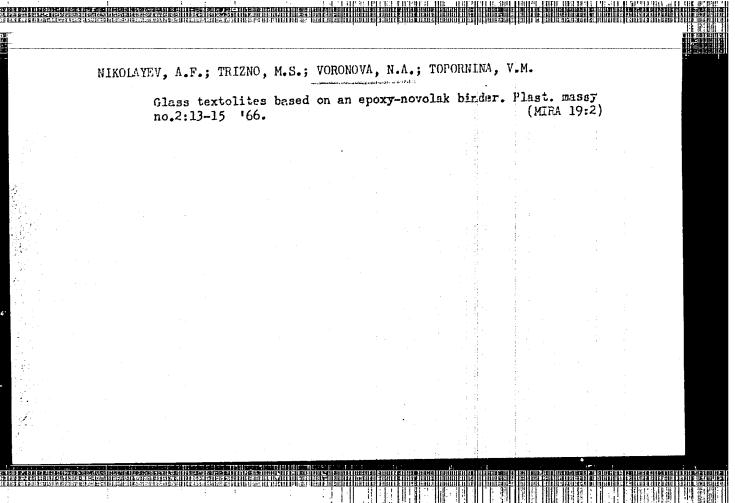




VORONOVA, N. A.; FEDOROVA, S. A.; TKACH, N. T.

Cast iron with bainite structure for making cylindrical pebbles.
Trudy Giprotsement no. 26:54-62 '63. (MIRA 17:5)

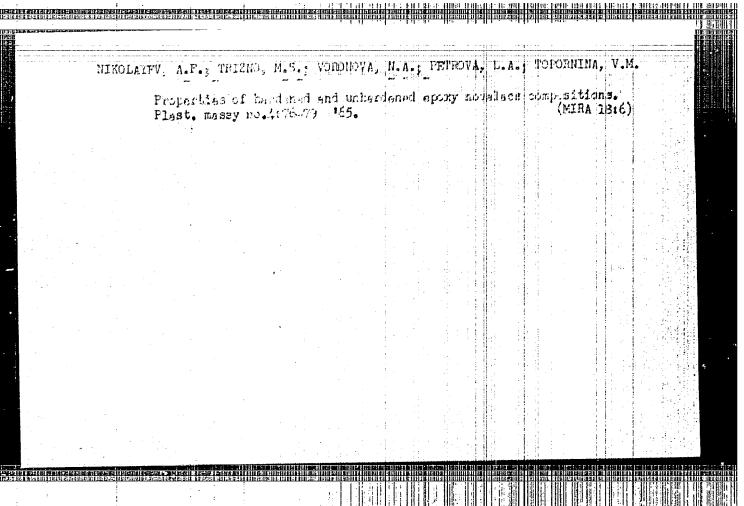
L 43766-66 EWT(m)/T/EWP(j) LIP(c) WW/DH SOURCE CODE: UR/0413/66/000/015/0088/0088	
ACC NR: AP6029919 (A) SOURCE CODE: UR/0413/66/000/013/0066/0005	
INVENTOR: Nikolayev, A. F.; Zyryanova, T. A.; Balayev, G. A.; Voronova, N. A.;	
Grigor yeva, G. M.	
ORG: none	
TITLE: Preparative method for phosphorus-containing epoxy resins. Class 39,	139
No. 184443 Jannounced by the Leningrad Technological Institute im. Lensover	
(Leningradskiy tekhnologicheskiy institut)]	
SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 88	
TOPIC TAGS: fire resistant material, epoxy plastic	1
ABSTRACT: An Author Certificate has been issued for a preparative method for phos-	
phorus-containing epoxy resins based on phosphonitrile chloride oligomers and epoxy compounds in the presence of caustic soda. To improve the fire resistance of the	
I wanted and to simplify the method, the phosphonitrile chiefful our golden are conducted	d
with glycidol. [SM	
and the property of the	
SUB CODE: 11/ SUBM DATE: 09Ju164/ H/A PRESS SECTION	
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STOVPCHENKO, P.I.; VORONOVA, N.A.

Continuous casting of balls. Lit. proizv. no.3:9-13 Mr 164.

(MIRA 18:9)



(Mika 18:3)

Bucket teeth of the EKG-4 excavator made of chromium-molvedenum stoel. Met. i gornorud, prom. no.1:72-74 Ju-F '65.

VORONOVA, N.A., doktor tekhn.nauk; TESLYUK, A.K., inzh.; HIKANOROVA, N.S., inzh.

Abrasion-resistant alloys for the bucket teeth of the EKG-4 excavator. Gor.zhur. no.3:45-48 Mr 165. (MIRA 18:5)

1. Institut chernoy metallurgii, Dnepropetrovsk.

(MIRA 17:32)

VORONOVA, N.A., doktor tekhn. nauk; GIMZENEG, In.H., Ingh.; YESEL'YARDV, I.Yu., Inzh.; GASPAROVA, S.H., inzh.; KONSTARTINOVSKIT, V.M., inzh.

Cylpebs form low-carbon cost iron and conditions for its use.

TSement 30 no.5:15-17 S-0 *64.

VORONOVA, N.A., doktor tekhn.nauk; TESLYUK, A.K.; MIROSHNICHENKO, G.L.; KUZNETSOVA, V.P.

Composite teeth for the EKG-4 excavator bucket. Met. i gornorud. prom. no. 2:53-54 Mr-Ap '64. (MIRA 17:9)

VORONOVA, N. A., doktor tekhn. nauk; STOVPCHENKO, P. I., inzh.; KRIVOSHEYEV, V. A., inzh.; PROTSKIY, N. Ye., inzh.; ZAYATS, A. P., inzh.; NESTEROVA, G. V., inzh.

Ball instead of cone mandrels for automatic pipe mills. Me. i gornorud. prom. no. 3:20-31 My-Je '63.

 Nikopol'skiy yuzhnotrubnyy zavod (for Protskiy, Zayats, Nesterova).

VORONOVA, N.A.; MOGILEVISEV, O.A.

Using cerium for the inoculation of cast iron.

Using cerium for the inoculation of cast iron.

(MIRA 16:10)

1. Dnepropetrovskiy institut chernoy metallurgii.

VORONOVA, N.A., doktor tekhn. nauk; STOVPUHENKO, P.I., inzh.; krivoshevev, v.A., inzh.; PROTSKIY, N.Ye., inzh.; ZAYATS, A.P., inzh.; NESTEROVA, G.V., inzh.

Cast bell mandrels for pipe-rolling mills. Mashinostroenie no.3:54-55 My-Je '63. (MIRA 16:7)

1. Institut chernoy metallurgii AN UkrSSR (for Voreneva, Stovpchenko, Krivesheyev). 2. Nikopol'skiy yushnotrudnyy savod (for Protskiy, Zayats, Nesterova). (Pipe mills)

VORONOVA, N.A.; MOGILEVISEV, O.A.; GRAYFER, M.Z.

Effect of the material of the crucible (ladls) on the residual content of cerium in cast iron being held under a reducing layer. Lit.proisv. no.42021 Ap *63. (MTRA 16:4)

(Sast iron—Metallurgy) (Grucibles)

NIKOLAYEV, A.F.; USHAKOV, S.N.; VISHNEVETSKAYA, L.P.; YORONOVA, N.A.

Preparation and properties of copolymers of vinyl alcohol and vinylamine. Vysokom.soed. 5 no.4:547-551 Ap '63. (MIRA 16:5)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Vinyl alcohol) (Vinylamine) (Polymers)

VORONOVA, N.A.; GINZBURG, Yu.N.; TOVAROV, V.V.; TKACH, W.T.; Prinimali uchastiye: OSKALENKO, G.H.; KOROTAYEVA, V.P.; PCD YACHEVA, I.B.; HIKAMOROVA, N.A.

The problem of raising the quality of cylindrical grinding bodies. Trudy Giprotsement no.24:119-144 *62. (MIRA 16:4) (Milling machinery)

VORONOUA, N.A.
AID Hr. 980-15 31 May

COPOLYMERS OF VINYL ALCOHOL AND VINYLAMINE (USSR)

Nikolayev, A. F., S. N. Ushakov, L. P. Vishnevetskaya, and N. A. Voronova. Vysokomolekulyarnyye soyedineniya, v. 5, no. 4, Apr 1963, 547-551.

S/190/63/005/004/011/020

Copolymers of vinyl alcohol and vinylamine (I) of varying compositions and the general formula

$$\begin{bmatrix} - CH_2 - CH - \\ OH \end{bmatrix} = \begin{bmatrix} - CH_2 - CH - \\ NH_2 \end{bmatrix}$$

were prepared by reacting copolymers of vinyl acetate and N-vinylphthalimide with hydrazine hydrate at 85 to 110°C for 2 to 6 hrs, depending on the N-vinylphthalimide content of the initial copolymer. Final products containing more than 10% I were isolated by precipitating them twice from water solution poured into alcohol, and those with a higher I content, by Reynolds' method.

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AID Nr. 980-15, 31: May

COPOLYMERS OF VIEYL ALCOHOL [Cont'd]

8/190/63/005/004/011/020

The final copolymers are solids soluble in solvents which will dissolve polyvinyl alcohol. Copolymers containing 12 to 44 mol % I have the following properties: glass transition temperature, 57 to 46°C; softening point, 125 to 100°C; Vicat softening point, 84 to 74°C; bending strength, 200 to 500 kg/cm²; and Vickers hardness, 14 to 19 kg/mm². The glass transition temperature, heat resistance, and softening point of the copolymers drop with an increase of the amino group content. The study was carried out at the Leningrad Technological Institute imeni Lensovet.

Card 2/2

APPROVED FOR RELEASE: 03/20/2001

CTA-RDP86-00513R001860920020-3

VORONOVA, N.A.; KHIL'SHLEYN, Yu.N.; MOGILEVISEV, O.A.; DANILKIS, V.N. Use of natural gas in large cupola furnaces. Lit. proism, no.11:1-2
N. 162
(MIRA 15:12) (Cupola furnaces)

APPROVED FOR RELEASE: 03/20/2001

VORONOVA, N.A., doktor tekhn.nauk; KHIL'SHLEYN, Yu.N., inzh.

Top blowing of cast iron by oxygen in reverberatory furnaces.

Met. i gornorud. prom. no.2:65-70 Mr-Ap '62. (MIRA 15:11)

1. Institut chernoy metallurgii AN UkrSSR.

(Cast iron-Metallurgy)

HIKOLAYEV, A.F.; USHAKOV, S.N.; VISHNEVETSKAYA, L.P.; VORONOVA, H.A.; RODINA, E.I.

Copolymerization of vinyl acetate and vinylphthalimide. Vysokom.soed. 4 no.7:1053-1059 Jl '62. (MIRA 15:7)

 Leningradskiy tekhnologicheskiy institut imeni Lensoveta. (Vinyl acetate) (Phthalimide) (Polymerization)

- mile .	hite:
15.950	8/190/62/004/010/009/010 B101/B136
AUTHORS:	Nikolayev, A. F., Ushakov, S. N., Vishnevetskaya, L. P., Voronova, N. A.
	Properties of copolymers of vinyl acetate with vinyl
TITLE:	phthalimide
PERIODICAL:	Vysokomolekulyarnyye soyedineniya, v. 4, no. 10, 1962, 1541-1546
menum. On-ni-	A . a
TEXT: Copoly	ymers of vinyl acetate and vinyl phthalimide (VPI) with the csition C-CH ₂ -CH- were studied to determine OCOCH ₃ m
general compo	CSition CH2-CH- CH2-CH- Were studied to determine CO CO
their solubi	CSITION CH2-CH- CH2-CH- Were studied to determine n
their solubi	CSITION CH2-CH- CH2-CH- Were studied to determine CO CO C6H4 lity in different organic solvents, their molecular weight, temperature. Vicat heat resistance, softening point, impact

S/190/62/004/010/009/010
Properties of copolymers of ... S/190/62/004/010/009/010

simultaneous charging of the components in bulk or in solution, contained an excess of VPI - VPI bonds. Compensation copolymerization yielded copolymers with a low content of such bonds differing by their thermomechanical behavior. Results: (1) The solubility, in solvents in which polyvinyl acetate is soluble, decreased as the VPI content increased; (b) the intrinsic viscosity decreased as the VPI content increased. The molecular weight of copolymers containing little VPI was determined from [\eta] = 1.6 \cdot 10^4 \overline{M}_w^{-0.7}, where [\eta] was measured in acetone, at 25°C, and \overline{M}_w is the average-weight molecular weight. \overline{M}_w of copolymers containing 14% VPI was 148100, and 146200 for 23% VPI. (3) An increase in the VPI content raised the softening point, Vicat heat resistance, and glass temperature (°C), respectively: 0 mole% VPI: 60, 37, 28; 20 mole% VPI: 75, 66, 41; 56 mole% VPI: 163, 108, 62; 98 mole% VPI: 210, 182, 135. (4) For copolymers containing 0, 23, 56, 70, and 98% VPI, the specific gravity (g/cm²) was 1.190, 1.220, 1.230, 1.255, 1.245, respectively; the water adsorption within 24 hrs (%, was 1.60, 0.7, 0.42, 0.40, and 0.39%, respectively. The Vickers Hardness number (kg/mm²) was 16-18, 15-19, 15-18, 16-19, and 18-20, respectively; the bending strength Card 2/3

Properties of copolymers of ...

B/190/E2/004/010/009/010 B101/B186

(kg/cm²) was 530, 270, 160, 230, and 515, respectively, and the impact strength (kg/cm²) was 2.6, 1.5, 1.1, 1.2, and 3.5, respectively. All samples were hardly inflammable and very stable to gascline and lubricating oils. A minimum of mechanical properties was observed at a VPI content of 50-60%.

ASSOCIATION:

Leningradskiy tekhnologicheskiy institut im. Lensoveta

(Leningrad Technological Institute imeni Lensovet)

SUBMITTED:

June 22, 1961

Card 3/3

SOV/128-59-10-6/24

18(5) AUTHORS: Voronova, N.A., Doctor of Technical Sciences, Belyy, N.I., and

Khil'shleyn, Yu.N., Engineers

TITLE:

The Use of Oxygen During the Melting of Roll Cast Iron in Rever-

berating Furnaces

PERIODICAL:

Liteynoye proizvodstvo, 1959, Nr 10, pp 21-24 (USSR)

ABSTRACT:

The authors present a report on the use of oxygen during the melting of roll cast iron. The melting of cast iron for the casting of chilled sheet rolls and rigid rolls is done in reverberating furnaces. The cast iron, containing 2.8-3.0% C and 0.4-0.5% Si, is treated with magnesium after leaving the furnace. If the melted metal contains 1.0-1.2% Si, the duration of the desiliconizing period in the reverberating furnace amounts to 2-3 hours. More effective for the desiliconizing of cast iron is the use of technically pure oxygen. Reverberating furnaces with a melting charge of 30 tons work on the hard charge with an addition of 5-7 tons of hot cupcla metal. The temperature of the metal, when it leaves the furnace is 1,430° C. Oxygen is lead in with a pressure of 12-15 attl through a fire resistant pipe, 100-150 mm of which are

Card 1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86

CTA-RDP86-00513R001860920020-3

S0V/128-59-10-6/24

The Use of Oxygen During the Melting of Roll Cast Iron in Reverberating Furnaces

submerged into the metal, with an angle of 30° (Fig.1). Different materials for the change part of the pipe were tested during research. There were three types of graphite pipes, magnesium reinforced tuyeres and tuyeres of two different types of chamot. The magnesium reinforced tuyeres proved to be the most simple and the most accessible ones for the production. Table 1 shows the change of the chemical qualities and the slag, according to the data of several fusions. Table 2 gives the data for the change of the slag quantity during the melting process of fusion Nr 2. The percentage of CaO in the slag is adduced, as well as the slag weight in kg. Table 3 gives data concerning the change of oxygen percentage in the metal during the melting process. At present time all the furnaces at the Dnepropetrovsk chugunc-wal'tsedelatel'nyy zavod (Dnepropetrovsk Cast Iron Roll Factory) work with oxygen. There are 1 diagram, 3 graphs and 7 tables.

Card 2/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860920

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 209 (USSR)

Yoronova, N. A., Gutman, M. R., Troskunov, Ya. L., Armen, AUTHORS:

B. D., Leppeta, B. G.

Low Carbon Cast Iron Rolls (Prokatnyye valki iz TITLE:

nizkouglerodistogo chuguna)

Tr. In-ta chernoy metallurgii. AN UkrSSR, 1957, Vol II, PERIODICAL:

pp 196-214

ABSTRACT:

An account of the results of an investigation performed on rolls made of low-carbon cast iron (LCI). The LCI was obtained by blowing oxygen through Cr-Ni cast iron in a converter with a 2.5 t capacity. Rolls 515 mm, 480 mm, and 400 mm in diameter were cast into a lubricated metallic mold at temperatures between 1360°-1400°C. Two versions for the modification of LCI in the converter were investigated: Fe-Si of the SI-45 type and Si-Ca. After the Fe-Si processing of LCI containing 0.6-0.8 percent Si and 0.8-0.9 percent Cr, no carbon remained in free state, whereas after Si-Ca treatment most of the C was in the form of graphite. Compared with the LCI with Fe-Si, the LCI with Si-Ca exhibits better fluidity. In order to

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APPROVED FOR RELEASE: 03/20/2001

137-58-3-5920

Low Carbon Cast Iron Rolls

attain an H_B of 380-400, it is recommended that the rolls be cast at temperatures of 1360°-1400° with cast iron of the following chemical composition: in the case of Fe-Si treatment: 2.4-2.6 percent C_{tot}; 0.9-1.0 percent Si; 0.5-0.6 percent Mn; 0.8-0.9 percent Cr; and 1.2-1.3 percent Ni; in the case of Si-Ca treatment: 2.4-2.6 percent C_{tot}; 0.6-0.7 percent Si; 0.5-0.6 percent Mn; 0.9-1.0 percent Cr; and 1.2-1.3 percent Ni. Rolls made of cast irons exhibit uniform hardness and uniform cross-sectional microstructure. The durability of LCI rolls is 2-2.5 times that of rolls made of cast irons of standard C content; their employment has resulted in a 3.5 percent increase in productivity of rolling mills.

E. Sh.

Card 2/2

VORONOVA, N.A., kand. tekhn. nauk; GUTMAN, M.P., inzh.; TROSEUKOV, Ya.Ya., insh.

Rollers made of low-carbon cast iron. Biul.TSNIICOM no.17:27-36 157.

1. Institut chernoy metallurgii AN USSR i Stalinskiy metallurgicheskiy zavod.

(Rolling mills)

INGUTION, M.V.; VOROMOVA. H.A.; SUSLOV, V.A.; KONASHIO, M.P.

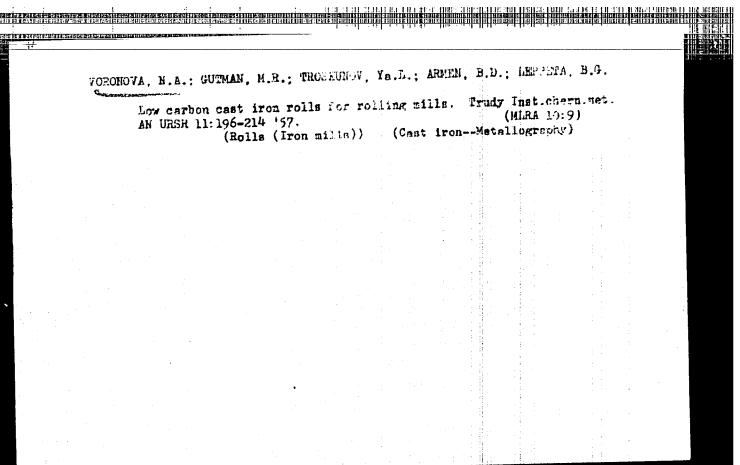
Engine crankshafts made of oxygen-blown cast iron. Tricky Inst.
chern. mst. &N URER 6:116-137 '53. (MIRA 11:4)
(Iron founding) (Cranks and crankshafts)

(Cranks and crankshafts)

APPROVED FOR RELEASE: 03/20/2001

LOPATIN, M.I.; VORON'KO, K.P.; IVKIN, G.V.; LAKHIN, A.F.; SIMAKOV, I.I.; KREKSHIN, N.A., podpolkovnik, red.; MEDNIKOVA, A.N., tekhn.red.

[Manual of methods for training soldiers in topography] Posobie po metodike topograficheskoi podgotovki soldat. Izd.2., perer. i dop. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 136 p. (Military topography) (MIRA 13:8)



APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001860920020-3"

Name: VORONOVA, Nataliya Aleksandrovna

Dissertation:

The Smelting of Low-Carbon Pig Iron in a Converter and highly Over-Refined Pig Iron in a Forehearth and Furnace Cupola

with the use of Oxygen

Doc Tech Sci Degree:

Affiliation: Inst of Ferrous Metallurgy Acad Sci USSR

8 Sep 55, Council of Inst of Metallurgy Defense Date, Place:

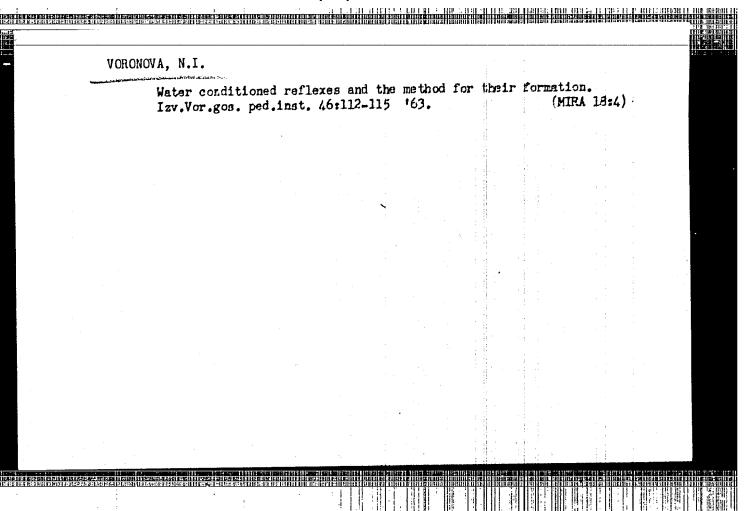
imeni Baykov, Acad Sci USSR

Oortification Date: 27 Oct 56

Source: BMVO 6/57

11

APPROVED FOR RELEASE: 03/20/2001



AP4037554 ACCESSION NRI

\$/0202/64/000/002/0003/0007

Agayev, Ya.; Voronkova, N. H.; Slobodchikov, AUTHOR:

Photomagnetic effect in p-type GaAs TITLE:

SOURCE: AN TurkmSSR. Izv. Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 2, 1964, 3-7

'TOPIC TAGS: photomagnetic effect, gallium arsenide, semiconductor, energy converter, current carrier lifetime, carrier lifetime computation

ABSTRACT: Photomagnetic effect in p-type GaAs was studied in a temperature range from 80 to 300K as a function of radiation and magnetic field intensities. The specimens had a concentration range from 1013 to 1017 cm and were obtained by zone melting with and without iron doping. The incident illumination provided by a 500-watt tungsten lamp was modulated by a rotating chopper and filtered to pass the 600-800µ band. The magnetic field varied up

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ACCESSION NR: AP4037554

to 10 Koe and the temperature function was plotted at 8 Koe. The photomagnetic effect was observed in specimens having concentration below 10⁵ cm⁻³. The temperature function of 4 chort-circuit photomagnetic current has an "S" shape and varies by more than an order of magnitude from 80 to 300K, which is at variance with Hurd's results (Proc. Phys. Soc. v. 79, 507, 1962). The d-c component of the illumination exerts an influence on the photomagnetic effect only at low temperatures. The photomagnetic effect as a function of incident radiation and magnetic field intensities was found to be linear in both cases. It is concluded that the magnitudes of experimental variables were confined within the limitations of the small-signal approximation which, consequently, could be used to compute the lifetime of minority carriers. Orig. art. has: 4 figures, 4 formulas, and 1 table.

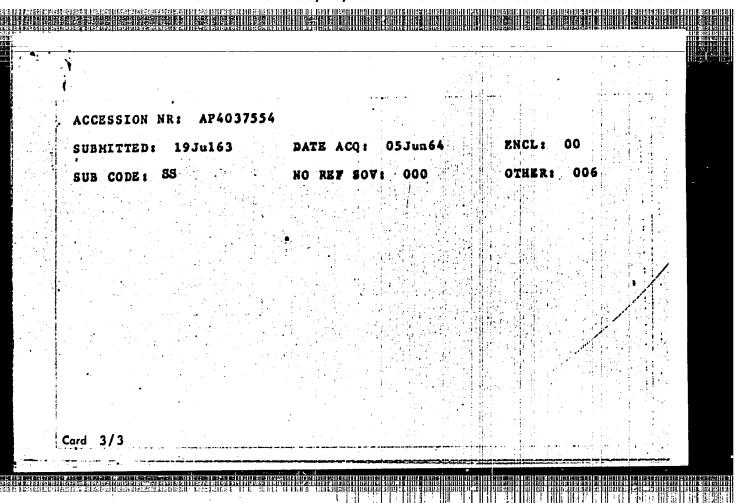
ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSR (Technical Physics Institute, AN Turkmen SSR)

Card 2/3

54".

APPROVED FOR RELEASE: 03/20/2001

CTA-RDP86-00513R001860920020-3



GUSAROV, V.V., inzhener, redaktor; VOROIDVA, N.S.; GARBIR, D.G.; NEMISOV, N.Yu.; FRIDLYANSKIT, G.V.; MARTEIS, S.L., redaktor; VODEL', B.I., tekhnicheskiy redaktor.

[Electric heating apparatus and equipment for the laboratory; a catalog and manual] Laboratornye elektronagrevatel nye pribery i ustanovki; katalog-spravochnik. Moskva, Gos.nauchnotekhn.izd-vo mashinostroitel noi lit-ry, 1955. 147 p. (MERA 9:1)

1. Russia (1923- U.S.S.R) Ministerstvo mashinostroyeniya i prihorestreyeniya. (Electric furnaces)

VORONOVA, N.T., aspirantka

Clean and green fallows in a forest-steppe zone. Zenisdelia 27 no.5230-31 My '65.

1. Cmckiy sel'skoklozyaystvennyy inatitut imeni Kireva.